

International application No.

PCT/AU2004/000043

A.	CLASSIFICATION OF SUBJECT MATTER		
	•	8/00, A61P 3/04, A61P 3/06, A61P 5/04, C07H 21	/02 COSTI 21/04
	International Patent Classification (IPC) or to both		/02, CU/H 21/04
	FIELDS SEARCHED .	n national classification and IPC	
	mentation searched (classification system followed by	classification symbols)	
		•	
Documentation	searched other than minimum documentation to the ex	ctent that such documents are included in the fields search	hed
differentially	expressed in obese animals or in fasted anim	of data base and, where practicable, search terms used) Note, any sequences in the answer sets that we mals were not considered as possible citations, emius, expression, psammomys, obesity, diabeter.)
	DOCUMENTS CONSIDERED TO BE RELEVANT	, Francis, Francisco, Cooper, Caro	
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
P,X	WO 2003/033513, A1 (AUTOGEN RESEA See whole document	ARCH PTY LTD et al.) 24 April 2003	1 - 31
P,X	WO 2003/018823, A1 (AUTOGEN RESEA See whole document	ARCH PTY LTD et al.) 6 March 2003	1 - 31
P,X	WO 2003/016542, A1 (AUTOGEN RESEA See whole document	ARCH PTY LTD et al.) 27 February 2003	1 - 31
. x	WO 2002/062994, A1 (AUTOGEN RESEA See whole document	ARCH PTY LTD et al.) 15 August 2002	1 - 31
	orther documents are listed in the continuation	n of Box C X See patent family anne	ex
"A" document not consid	plication or patent but published on or after the "X" dinal filing date	ater document published after the international filing date or preconflict with the application but cited to understand the principle inderlying the invention locument of particular relevance; the claimed invention cannot or cannot be considered to involve an inventive step when the	be considered novel
or which is another cit	which may throw doubts on priority claim(s) "Y" discited to establish the publication date of ir tation or other special reason (as specified) su referring to an oral disclosure, use, exhibition	lone locument of particular relevance; the claimed invention cannot involve an inventive step when the document is combined with ouch documents, such combination being obvious to a person sklocument member of the same patent family	be considered to
"P" document	published prior to the international filing date han the priority date claimed	· · · · · · · · · · · · · · · · · · ·	
Date of the actual	l completion of the international search	Date of mailing of the international search report	
16 February 2		. 2 4 MAR 2004	
	g address of the ISA/AU PATENT OFFICE	Authorized officer	
PO BOX 200, W	ODEN ACT 2606, AUSTRALIA	DAVID ODVERNOOM	
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INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/000043

		JU4/UUUU43				
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
. , X	WO 2001/002560, A1 (AUTOGEN RESEARCH PTY LTD et al.) 11 January 2001 See whole document	1 - 31				
x	WO 2000/064931, A1 (AUTOGEN RESEARCH PTY LTD et al.) 2 November 2000 See whole document	1 - 31				
x	WO 2002/008275, A2 (BAYER CORPORATION) 31 January 2002 See whole document	i - 31				
x	WO 1999/023217, A1 (INTERNATIONAL DIABETES INSTITUTE) 14 May 1999 See whole document	1 - 31				
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000043

B	No.	. 1	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	Wit clair	h rega ned in	rd to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, the international search was carried out on the basis of:
	a.	type o	of material
		X	a sequence listing
			table(s) related to the sequence listing
	b.	forma	at of material
		Ш.	in written format
		X	in computer readable form
	c.	time c	of filing/furnishing
			contained in the international application as filed
		X	filed together with the international application in computer readable form
			furnished subsequently to this Authority for the purposes of search
2.		mea	ddition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	ional (comments:
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000043

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This internate reasons:	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following				
1.	Claims Nos.:				
	because they relate to subject matter not required to be searched by this Authority, namely:				
•					
2. X	Claims Nos.: 1, 22, 23-28 and 30 (all in part)				
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
	The scope of "a derivative or homolog" in claim 1 and "a derivative, homolog, analog, chemical equivalent or mimetic" in claim 28 is so unclear that a meaningful search is not possible and these claims have only been searched to the extent that they do not include any of these terms.				
	Continued on supplemental sheet				
	Claims Nos.:				
· · · · · ·	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Box No. III	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
	ational Searching Authority found multiple inventions in this international application, as follows:				
The onl hypotha diabetic in faster	ly feature in common between the claimed sequences is that they are differentially expressed in alamus in obese animals compared to lean animals or in fasted animals compared to fed animals or in c animals compared to non-diabetic animals. However, the feature "differential expression in hypothalamus, and animals compared to fed animals" is not novel since there are other genes known with this feature. Thus, y of invention is in evidence a posteriori.				
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. []	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
_	·				
Remark on	Protest The additional search fees were accompanied by the applicant's protest.				
	No protest accompanied the payment of additional search fees.				



International application No.

PCT/AU2004/000043

Supplemental	Box
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation	of	Box	N	o:	П
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Claims 23-28 and 30 are directed to agents or molecules that modulate the effect of the described genes or to the use of such agents. Terms such as 'agents" in their broadest scope do not restrict the compounds claimed to any particular family of chemicals and so claims to agents, modulators or their use are not fully supported by the description. The claims have only been searched to the extent that the agents are antibodies or similar molecules whose structures can be directly deduced from the present disclosure because they can not be feasibly or economically searched across their entire scopes.



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International application No.

PCT/AU2004/000043

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pat	ent Family Member		
wo	2003/033513		NONE				<u> </u>
wo	2003/018823		NONE	·			· · · · · · · · · · · · · · · · · · ·
WO	2003/016542		NONE				
WO	2002/062994	CA	2437423	EP	1366164		
WO	2001/00786	AU	54234/00	EP	1206566		
wo	2000/064931	ΑU	39469/00	CA	2370286	EP	1196438
WO	2002/008275	AU	79038/01	US	2002041870		1230.00
wo	1999/023217	AU	10112/99	CA	2307839	EP	1030915
	•	NZ	504327	US	6436670		33332
						· · · · · · · · · · · · · · · · · · ·	
<u> </u>							END OF ANNEX